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PYRIMIDINE DERIVATIVE OR SALT THEREOF

Publication number: JP2004269469

Publication date: 2004-09-30

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Applicant: YAMANOUCHI PHARMA CO LTD

Classification:

- international: C07D401/12; A61K31/506; A61P3/10; C07D401/00; A61K31/506; A61P3/00; (IPC1-7): C07D401/12; A61K31/506; A61P3/10

- european:

Application number: JP20030066068 20030312

Priority number(s): JP20030066068 20030312

Report a data error hereAbstract of **JP2004269469**

PROBLEM TO BE SOLVED: To provide a compound which has an excellent insulin secretion promotion effect and an excellent blood glucose increase inhibition effect and can be used in treatment of insulin-dependent diabetes, insulin-independent diabetes, insulin-resistant diseases, and obesity.

SOLUTION: The compound is a pyrimidine derivative represented by formula (I) or a pharmaceutically acceptable salt thereof. In formula (I), R<SP>1</SP>is methyl, ethyl, or cyclopropyl optionally substituted with one or more halogen atoms of the same or different elements; R<SP>2</SP>is -H, -F, or methyl; R<SP>3</SP>is an optionally substituted aryl or aromatic-heterocycle; A is a lower alkylene optionally substituted with at least one -OH; and B is an optionally substituted 2-oxopyridyl optionally fused with benzene.

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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-193277

(43)Date of publication of application : 21.07.1999

(51)Int.Cl.

C07D239/47
A01N 43/54
C07D239/54

(21)Application number : 10-148362

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(22)Date of filing : 13.05.1998

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(30)Priority

Priority number : 09139281 Priority date : 14.05.1997 Priority country : JP

09316409

31.10.1997

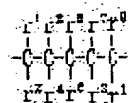
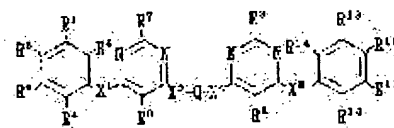
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(54) PYRIMIDINE DERIVATIVE, ITS PRODUCTION AND HARMFUL ORGANISM CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound having a pyrimidine skeleton, useful as an active ingredient for a harmful organism controller having secure effects, safely usable.

SOLUTION: This compound is shown by formula I [R1 to R5 and R10 to R14 are each independently H, nitro, cyano, a



halogen, a 1-6C alkyl, a 1-6C alkoxy or the like; R6 to R9 are each independently H, nitro, a halogen, a 1-6C alkyl, a 1-6C haloalkyl or the like; X1 to X4 are each O or the like; Q is a group of formula II (r1 to r10 are each independently H, a halogen, hydroxy or the like), phenylene or the like] such as 4,4'-[1,2-ethanediylbis(oxy)]bis[6-(4-fluoro-3-trifluoromethylphenoxy)pyrimidine]. The compound of formula I can be obtained, for example, by reacting a compound of formula III with a compound of formula IV (hal is a halogen) in the presence of a base such as triethylamine. Consequently the compound effective for controlling agriculturally harmful organisms, sanitary insect pests, grain insect pests, insect pests for clothing, etc., can be provided.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]